

Madison Gas and Electric Company

P.O. Box 1231 Madison, WI 53701-1231 608-252-7000

your community energy company

April 30, 2003

Mr. James D. Loock Chief Engineer, Electric Division Public Service Commission of Wisconsin 610 North Whitney Way Post Office Box 7854 Madison, Wisconsin 53707-7854

Subject: PSC 113.0607 - Appropriate Inspection and Maintenance System Reliability -

Operating Performance Statistics

Dear Mr. Loock:

To satisfy the requirements of the service rule referenced above, enclosed is Madison Gas and Electric Company's (MGE) Operating Performance Statistics for units nameplate-rated at 50-MWs or more. The West Marinette Combustion Turbine is the only unit owned and operated by MGE that is nameplate-rated higher than 50-MWs.

I believe this information satisfies the requirements of PSC 113.0607, paragraph six (6), but if you have any questions or require additional information, please contact me at your earliest convenience.

Sincerely,

Robert A. Patton

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Manager - Blount Maintenance and Stores

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Enclosure

## M34 Facility Monthly Operating Report

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Closing Reading Taken on 01/01/2001 02/01/2001 03/01/01 04/01/01 05/01/01 05/01/01 06/01/01 08/01/01 08 Closing Reading Taken on 02/01/2001 03/01/2001 04/01/01 05/01/01 06/01/01 07/01/01 08/01/01 08		Period Hours 744 672 744 720 744 720 744	Emergency Trips 6 0 0 0 0 0 2	Fired Starts 10 8 9 3 10 10 20	Gas Fired Hours HRS 42.00 117.80 130.00 16.10 47.20 90.30 180.00	Peak Fired Hours HRS 0.00 1.00 0.00 0.00 4.90 1.10 1.20	Total Fired Hours HRS 73.10 117.80 130.00 16.10 54.70 90.30 179.90	(Nameplate) % 8.47 14.52 14.95 1.63 5.4 9.52 18.29	Heat Rate BTU/KWH 12,506 12,615 12,424 13,864 13,085 12,900 12,825	Demineralized Water Consumed GAL 142,326 0 0 1 35,393 0 1,233	Distillate Fuel GAL 202,499 0 0 10 41,593 0 6	Natural Gas Fuel CCF 361,100 1,003,200 1,128,300 124,600 366,100 719,100 1,428,400 1,4	Net Generation KWH 5,145,000 8,016,000 9,154,000 906,000 3,259,000 5,619,000 11,212,000 11,931,000	Gross Generation KWH 5.235,000 8,104,000 9,242,000 976,000 3,338,000 5,696,000 11,306,000 12,021,000	January February March April May June July
		720	0	ω	16.10	0.00	16.10	1.63	13,864	-3	10	124,600			April
		744		10	47.20	4.90	54.70	5.4	13,085	35,393	41,593	366,100			May
		720	0	6	90.30	1.10	90.30	9.52	12,900	0	0		619,000 11	;696,000 11	June
		744	N	20	180.00	1.20	179.90	18.29	12,825	1,233	6		,212,000 11	,306,000 12	
	08/01/01 09/01/01	744	<b>C</b> h	16	187.60	0.00	187.60	19.45	12,801	0		1,515,200	,931,000	,021,000	August September
	09/01/01 10/01/01	720	0	N	7.50	0.00	7.60	0.68	15,439		=	53,900	352,000 2	405,000 2	
	10/01/01 11/01/01	744	0	ω	33.90	0.00	33.90 ·	3.75	12,817	266	12	287,500	2,250,000 1	2,318,000	October November December
	11/01/01 12/01/01	720	0	O1	36.40	0.00	36.40	3.31	13,963	<b>-</b>	7	266,300	1,913,000	1,981,000	Vovember (
	12/01/01 01/01/02	744		4	14.30	0.00	14.30	1.16	15,605	0	24	99,200	641,000	714,000	December
		8,760							12,822	179,220	244,166	7,353,900	60,398,000	61,337,000	

## M34 Facility Monthly Operating Report

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Bruce Crocker Eastern Hydro Supervisor	Opening Reading Taken on Closing Reading Taken on	Period Hours	Emergency Trips	Fired Starts	Gas Fired Hours	Peak Fired Hours	Total Fired Hours	(Nameplate)	Heat Rate Cap. Factor	Demineralized Water Consumed	Distillate Fuel	Natural Gas Fuel	Net Generation	Gross Generation	
12/26/2002 rvisor	aken on ken on				HRS	HRS	HRS	%	BTU/KWH	GAL	GAL	CCF	KWH	KWH	Ĺ
	01/01/2002 03/01/2002 02/01/2002 02/01/2002	744	0	N	26.80	0.00	26.80	2.69	13,661	0	່ ຜ	216,000	1,586,000	1,665,000	January February
	03/01/2002 02/01/2002	672	N	9	69.60	0.00	69.60	7.73	13,180	0	33	556,300	4,238,000	4,314,000	February
	03/01/02 04/01/02	744	N	o	51.90	0.00	51.90	5.6	13,054	0	7	439,200	3,378,000	3,460,000	March
	04/01/02 05/01/02	720	0	17	205.20	0.00	205.20	21.71	12,895	0	18	1,659,700	3,378,000 12,897,000	3,460,000 12,987,000	April
	04/01/02 05/01/02	744	0	4	19.50	0.00	20.30	2.05	13,464	1,634	5,057	153,300	1,195,000	1,265,000	May
	06/01/02 07/01/02	720	0	7	41.80	0.00	41.90	3.9	13,690	0	0	308,700	2,264,000	2,334,000	June
	07/01/02 08/01/02	744	0	13	131.80	0.00	131.80	12.56	13,217	0	19	1,009,500			July
	08/01/02 09/01/02	744	0	20	185.00	0.00	185.00	17.02	13,326	0	7	1,384,100	7,676,000 10,428,000	7,762,000 10,518,000	August
	09/01/02 10/01/02	720	0	œ	85.20	0.00	85.20	8.7	13,055	0	0	670,600	5,152,000	5,206,000	September
	10/01/02 11/01/02	744	0	12	82.00	0.00	86.40	7.89	13,465	12,338	20,359	614,700	4,792,000	4,875,000	October
	11/01/02 12/01/02	720	0	14	119.50	0.00	119.70	12.6	13,074	Oi	1,720	953,300	7,339,000	7,539,000	November
	12/01/02 01/01/03	744	رن ن	17	60.60	0.00	62.00	5.88	13,340	2,713	4,431	465,200	3,547,000	3,631,000	December
		8,760	9	129	1,079	0	1,086	φ	13,187	16,690	31,657	8,430,600	64,492,000	65,556,000	YTD

4260000	0	95000	4355000	Total - Kwh		3126	6933	0/0/00	l otal Used
and more	1000	1000	1000	Constant			1	100	Constant
	2478	2558	160864	Open		214462	277528	200264	Open
	2478	2653	165219	Close	,	217588	284461	205971	Close
Generation	Use	Use	Generation			Gal	Gal	CCI	
Net	Station	Station	Gross			Water	Distillate	ias	
	Aux					XON	Fuel		
								Jary 2003	Month January 2003
		<u> </u>	MONIHLY OPERATING STATISTICS - M34	ATIST	JG ST	RATIN	OPEF	ATHI	MON

5	2.50		0.00	, 0.00					
À	3 50	76.00	00.0	US 8 <b>2</b>	6		<del>1</del> 8	100	ota
1		_	_	_		1			Constant
509	57.20	2469.90	13.60	2527.4	29	0	309	324	Open
524	59.7	2545.90		2605.9	35	0	ľ	342	Close
GCB Oper	Hours	Hours	Peak Hours	Hours	Emer Trips Hours	Starts	VIA	Starts	2
	Fired	Gas Fired		Total Fired	!	Fast Load	Fired	lotal	
	Liquid						!	!	-

Heat Content Gas/CuFt: 1006

Oil/Gal: 138000

BTU total 58369174000
Heat Rate: 13702
Capacity
Factor: 7.05
# Days in
Month 331

Opening reading were taken on: 01/01/2003 Closing reading were taken on: 02/01/2003

Note:

9066000	0	100000	9166000	Total - Kwh	63321	01/0/	DOGGOOD	Daso IPIO I
STATE AND ADDRESS.	1000	1000	1000	Constant	_	707.0	00000	Constant
	2478	2653	165219	Open	217588	284461	176907	Cpen
は大きな事が	2478	2753	174385	Close	280909	361171	216657	Close
Generation	Use	Use	Generation		Ga	Ga	22	2
Net	Aux Station	3	Gross		Water	Distillate	Fuel Gas	
				·	NOX	Fuel		
	4						ioilui rebiuary 2003	INIOINI
			S - M34	ATISTIC	MONTHLY OPERATING STATISTICS - M34	OPER	ATHI	MON

17	12.70	136.50	0.40	149.30	4	٥	Σiα	Ī	Clai
-		l				,		40	1
4	1	_	_			_	_	-	CONSIGNI
524	59.7	2545.9	13.6	6.0002	S		120	57,	Coon
0		I.		1	30	2	207	بر د	Open
541	72.4	2682.40	14.00	2755.2	39	0	345	360	Close
GCB Oper		Hours	reak nours	Pouls	בוופו וווסט	001.0			2
)					Empr Trine	Starts		Starts	
	Fired	Gas Fired		Total Fired		Fast Load	Fired	lotal	
	Liquid					:		1	

Heat Content
Gas/CuFt: 1008

Oil/Gal: 138000

BTU total
Heat Rate:
Capacity
Factor:
# days in
month 118300860000 13049

16.42

28

Liquid fuel use is from metering problem, not fuel burned.

Note:

Opening reading were taken on Closing reading were taken on

02/01/2003 03/01/2003

Month March 2003	ch 2003	<u> </u>			Month March 2003			
		Fuel	XOX				AIIX	
	Fuel Gas	Distillate	Water			Station	Station	Net
	ccf	Gal	Gal		Gross Generation	Use	Use	Generation
Close	218372	361176	280909	Close	175744	2827	2372	
Open	216657	361171	280909	Open	174385	2753	2365	
Constant	100	-1	1	Constant	1000	1000	1000	
Total Used	171500	5	0	Total - Kwh	1359000	74000	7000	1278000

6	0.00	23.00	0.00	22.90	0	0	7		lotal
1	-1	-1	1	1	_	_	-1	دا	Constant
541	72.4	2682.4	14	2755.2	39	0	345	360	Open
547	72.4	2705.40	14.00		39	0	352	367	Close
GCB Oper	Hours	Hours	Peak Hours	Hours	Irips	Starts	Starts	Starts	
	Fired	Gas Fired	ı	Total Fired	Emer	Fast Load	Fired	otal	
,	Liquid						 !	i	

Heat Content
Gas/CuFt: 1014
Oil/Gal: 138000

BTU total 17,3
Heat Rate:
Capacity
Factor:
# Days in
Month

17,390,790,000 13608

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Note:

Fuel oil usage was not burned was from low gas pressure crossover to liquid fuel.

	Definitions:	West Marinette	Plant			
		34	Unit			
	Forced Outage Rate - [Forced Outage Hours/ (Forced Outage Hours +Service Hou Scheduled Outage Factor - (Scheduled Outage Hours/Period Hours) x 100(%)	Combustion turbine	t Technology Type			
	Outage Hour	78	Net Summer Capacity MW		¥,	
	s/ (Forced O age Hours/P	106	Net Winter Capacity MW	A	Gene SC Preve	
	utage Hours + eriod Hours) x	60,396	Net Generation MWh	Attachment A	Generating Facilities WPSC Preventive Maintenance Pi	2001
	Service Hours	12,822	Heat Rate		ities enance Plan	
	rs)] × 100(%)	6.69	Cap.		3	
	6)		Fuei Consumed Total MMBTU's			
		0.45	Forced Outage Rate			
		0.00	Scheduled Outage Factor			

	Definitions:	West Marinette	Plant			
	Force	34	Unit			
	Forced Outage Rate - [Forced Outage Hours/ (Forced Outage Hours +Service Hours) Scheduled Outage Factor - (Scheduled Outage Hours/Period Hours) x 100(%)	Combustion turbine	t Technology Type			
	ed Outage Hou Scheduled Ou	78	Net Summer Capacity MW		<b>×</b>	
	rs/ (Forced Outage Hours/Pe	106	Net Winter Capacity MW	A	PSC Preve	
	utage Hours + eriod Hours) x	64,492	Net Generation MWh	Attachment A	WPSC Preventive Maintenance	2002
	Service Hours	13,187	Heat Rate Btu/KWh	P	enance Plan	
	s)] × 100(%)	9.03	Cap.		<b>n</b>	
	5)		Fuel Consumed Total MMBTU's			
		0.32	Forced Outage			
		0.00	Scheduled Outage Factor			

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